| Ir   | 2  | ۵v | Ωf  | C | lai | ms |
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09/930,135

NISHIMURA ET AL.

Applicant(s)/Patent under Reexamination

Examiner

Art Unit

Michael D. Meucci

2142

Rejected **Allowed** 

(Through numeral) Cancelled

Non-Elected N

Appeal Α

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Interference

O Objected

| Cla  | aim      | Date     |          | Cl   | Claim Date   |          |              |  |                 |               |          |          | 7              | CI       | aim      | Date     |          |          |          |          |          |          |          |              |                |              |          |                 |                |          |           |          |
|--|----------|----------|----------|--|--------------|----------|--------------|--|-----------------|---------------|----------|----------|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------|----------------|--------------|----------|-----------------|----------------|----------|-----------|----------|
| ۳  |          |          |          |  | <u>-~"</u>   |          |              |  |                 |               |          |          |                | ┪        | 3        |          |          |          |          | $\Box$   |          |          | 1        | $\neg$       | $\dashv$       |              |          |                 |                |          |           |          |
| Final  | Original | 2/28/07  |          |  |              |          |              |  |                 |               | Final    | Original |                |          |          |          |          |          |          |          |          | Final    | Original |              |                |              |          |                 |                |          |           |          |
|  | (1)      | 1        | Т        | T  |              |          |              |  |                 | $\neg$        |          | 51       |                |          |          |          | 7        |          | T        |          | 7        |          | 101      |              |                |              |          |                 |                |          | $\exists$ | _        |
| -  | 2        | 1        | t        | 一  |              | $\vdash$ | T            |  | П               | $\neg$        |          | 52       | $\Box$         | $\neg$   | 7        | 十        | $\dashv$ | $\top$   | 寸        |          | 7        |          | 102      |              |                |              |          |                 |                | $\neg$   | ヿ         | $\neg$   |
|  | 3        | 1        | t        | t  | 1            | $\vdash$ | T            |  | Н               | ヿ             | ·        | 53       | 1 1            | $\neg$   | 寸        | $\top$   | $\dashv$ | 1        | _        | _        | ┪        |          | 103      |              |                |              |          |                 |                | - 1      |           | $\neg$   |
| _  | 4        | V        | -        | 1-   | <del> </del> | $\vdash$ | +-           | -  |                 |               |          | 54       | 1-1            |          | +        | +        | -+       |          | 十        |          | ٦.       | -        | 104      |              | Н              |              |          | _               |                | - +      | -         | $\dashv$ |
| <del>                                     </del> | 5        | 1        | ╁        | $\vdash$   | ╁            | $\vdash$ | +            |  |                 |               |          | 55       | $\vdash$       | $\dashv$ | 十        | +        | $\dashv$ | +        | +        | -        | ┨        | -        | 105      |              | H              |              | _        | $\vdash$        | $\vdash$       | _        | _         | $\dashv$ |
|  | 6        | Ì        | ╁        | $\vdash$   | +-           | ┼╌       | ┿            | $\vdash$   |                 | 一             |          | 56       | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |          | -+       | -        | ┪        |          | 106      |              |                | -            |          |                 | -              |          | $\neg$    | $\dashv$ |
|  | 7        | V        | ╁╌       | $\vdash$   | +-           | ╁╴       | ╆            | H  | Н               | $\dashv$      |          | 57       | Н              | $\neg$   | -+       | ┰        | -+       | +        | +        | +        | ┨        |          | 107      |              | $\vdash$       |              |          |                 | $\vdash$       | _        | $\dashv$  | $\dashv$ |
|  | 8        | V        | $\vdash$ | ╁  | $\vdash$     | $\vdash$ | $\vdash$     | H  | Н               | $\dashv$      |          | 58       | Н              |          | $\dashv$ | 十        | $\dashv$ | $\dashv$ | +        | -        | ┥        |          | 108      |              | -              |              | -        | -               | -              | +        |           | $\dashv$ |
|  | ത്       | V        | H        | $\vdash$   | $\vdash$     | 十        | +-           | 1  |                 | $\dashv$      |          | 59       | H              | -        | $\dashv$ | 十        | -+       | +        | +        | _        | ┥        | -        | 109      |              |                |              |          |                 |                |          | $\dashv$  | $\dashv$ |
|  | 10       | 1        | ╁        | ╁  | ┢            | ╁        | ╁            | <del> </del>                                     | Н               | -             |          | 60       | Н              | -        | $\dashv$ | +        | $\dashv$ | +        | +        | +        | ┨        | _        | 110      | $\vdash$     | -              |              | -        | _               | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 11       | V        | ╁        | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$     | ╁  |                 | $\dashv$      |          | 61       | Н              | -        | -+       | +        | +        | +        | +        | +        | ┨        |          | 111      |              | -              |              | H        |                 | -              | $\dashv$ | $\dashv$  | $\dashv$ |
| $\vdash$   | 12       | V        | $\vdash$ | $\vdash$   | $\vdash$     | +-       | $\vdash$     | <del> </del>                                     | Н               | $\dashv$      |          | 62       | Н              |          | $\dashv$ | $\dashv$ | +        | +        | +        | +        | $\dashv$ |          | 112      | <b>—</b>     | $\vdash$       | —            |          | $\vdash$        | -              | -        | $\dashv$  | ᅱ        |
| <del> </del>                                     | 13       | V        | 1        | +-   | $\vdash$     | ╁        | $\vdash$     | <del>                                     </del> |                 | $\dashv$      | -        | 63       | H              |          | $\dashv$ | $\dashv$ | +        | +        | +        | +        | 4        |          | 113      | $\vdash$     | $\vdash$       | -            | -        | Н               | H              | - 1      | ᅱ         | $\dashv$ |
|  | 14       | V        | $\vdash$ | $\vdash$   | $\vdash$     | ┢        | ╆            | ╁  | H               | $\dashv$      |          | 64       | H              | -        | -+       | +        | +        | +        | +        | +        | 7        |          | 114      |              | $\vdash$       | _            |          | Н               |                | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u>   | 15       | V        | 1        | <del>                                     </del> | †-           | ╁        | $t^{-}$      | $\vdash$   | $\vdash$        | $\dashv$      |          | 65       | H              | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +        | +        | ┨        |          | 115      |              | $\vdash$       | -            |          | $\vdash$        | Н              | $\dashv$ | ᅱ         | $\dashv$ |
| <del> </del>                                     | 16       | V        | +        | +-   | ╁            | -        | +-           | <del> </del>                                     | Н               | $\dashv$      | -        | 66       | Н              |          | $\dashv$ | $\dashv$ | +        | +        | +        | +        | 4        | -        | 116      | $\vdash$     | $\vdash$       |              | -        | Н               | H              | $\dashv$ | $\dashv$  | $\dashv$ |
|  | (17)     | V        | $t^-$    | $\vdash$   | $\vdash$     | $\vdash$ | H            | <del>                                     </del> | Н               | $\dashv$      |          | 67       | Н              | $\vdash$ | $\dashv$ | $\dashv$ | +        | +        | +        | +        | $\dashv$ | $\vdash$ | 117      | $\vdash$     | $\vdash$       | _            | $\vdash$ | $\vdash$        | Н              | -        |           | $\dashv$ |
|  | 18       | V        | ╁        | -  | ╁╾           | ╁        | ╁            | ├  | Н               | $\dashv$      |          | 68       | $\vdash$       | -        | $\dashv$ | $\dashv$ | 十        | +        | +        | $\dashv$ | ┨        |          | 118      | _            |                | _            | -        | -               | Н              | -        | $\dashv$  | ᅱ        |
| -  | 19       | V        | ╁┈       | ┢╌   | ┢            | 1        | H            | ┢  | Н               | $\dashv$      | -        | 69       | -              |          | -        | -        | -        | +        | +        | +        | -        |          | 119      |              |                |              | _        | -               |                | $\dashv$ | ᅥ         | $\dashv$ |
|  | 20       | V        | ╁        | ╁  | $\vdash$     | $\vdash$ | ╁            | ├  |                 | $\dashv$      |          | 70       | $\vdash$       |          | $\dashv$ | $\dashv$ | +        | +        | $\dashv$ |          |          |          | 120      | -            | -              |              |          | -               |                | $\dashv$ | $\dashv$  | ᅱ        |
|  | 21       | V        | ╁╴       | ┢  | ┢            | ╁        | ╁            | ├  | Н               | $\dashv$      | -        | 71       |                |          | -+       | $\dashv$ | +        | +-       | ╅        | +        | -        | -        | 121      | $\vdash$     | -              |              | -        |                 |                | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 22       | V        | ╁╌       | ┢  | ┢            | 1        | 1            | <del> </del>                                     |                 | $\dashv$      | -        | 72       |                | -        | +        | +        | $\dashv$ | +-       | +        | +        | -        | -        | 122      | -            | -              |              | _        |                 |                | $\dashv$ | ᅱ         | $\dashv$ |
| <del> </del>                                     | 23       | V        | ╀        | ╁  | ╁            | ╁╌       | ╁            | ├  | Н               | $\dashv$      | <u> </u> | 73       | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +        | $\dashv$ | -        | 123      | -            |                | -            | -        |                 |                | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u>   | 24       | V        | $\vdash$ | ⊢  | ŀ            | ╁─       | ├            |  | Н               | $\dashv$      | -        | 74       | -              |          | -        | $\dashv$ | $\dashv$ | +        | +        | $\dashv$ | -        |          | 124      | -            | $\vdash$       | -            |          | -               |                | -        | $\dashv$  | $\dashv$ |
| ├──  | 25       | 1        | ⊢        | ⊢  | ╁            |          | -            | <del> </del>                                     | Н               | $\dashv$      | -        | 75       | -1             |          | $\dashv$ | $\dashv$ |          | +        | +        | +        | -        | -        | 125      | $\vdash$     | $\vdash$       | _            |          | Н               | _              | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 26       | V        | $\vdash$ | ┼-   | ├            | ┼        | ┼-           | ╁  | Н               | $\dashv$      | -        | 76       |                |          | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +-       | -        | ļ        | 126      | Н            |                | -            |          | _               |                | $\dashv$ | $\dashv$  | $\dashv$ |
| <del></del>                                      | 27       | H        | ┿        | -  | ┢            | -        | ╁╾           | -  |                 | <del></del> - | -        | 77       | $\vdash$       | -        | -        | $\dashv$ | +        | +        | ╅        |          | -        |          | 127      | H            |                | _            |          | $\vdash$        |                | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 28       | ⊢        | ╁╌       | ╁╾   | ╁            | -        | -            | <del></del>                                      | Н               | -             |          | 78       | $\vdash$       |          | +        | $\dashv$ | +        | +        | ╅        | +        | -        | -        | 128      | $\vdash$     | -              | _            | $\vdash$ | -               |                | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 29       | $\vdash$ | $\vdash$ | $\vdash$   | ╁            | ╁        | ╁            | ├  | $\vdash$        | ᅥ             | -        | 79       |                |          | +        | -+       | +        | +        | +        | +        | -        | -        | 129      | -            |                | _            |          |                 |                | $\dashv$ | $\dashv$  | -        |
|  | 30       | ┢        | ╁        | ╀  | -            | ╁        | -            | <del> </del>                                     |                 | $\dashv$      |          | 80       | Н              | -        | +        | $\dashv$ | $\dashv$ | +        | +        | +        | -        | -        | 130      | ├            |                |              | -        |                 | _              | -        | $\dashv$  | ᅱ        |
| <u> </u>   | 31       | -        | ┢        | $\vdash$   | ╁            | ╁        | ┼            | ┢  | $\vdash$        | $\dashv$      |          | 81       | Н              |          | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        |          | -        | -        | 131      |              | <u> </u>       |              | -        | Н               |                | $\dashv$ | $\dashv$  | ᅱ        |
| <del> </del> -                                   | 32       | ⊢        | ⊢        | ⊢  | ┝            | +-       | ╁╌           | ├  | $\vdash$        | $\dashv$      | -        | 82       | Н              |          | +        | $\dashv$ | +        | +        | +        |          | 4        |          | 132      | ┝            | H              |              | $\vdash$ |                 | _              | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u>   | 33       | ╁╌       | ├        | ├-   | ⊢            | ╁        | <del> </del> | ₩  | Н               | $\dashv$      |          | 83       | $\vdash$       | -        | $\dashv$ | $\dashv$ | +        | +        | +        | +        | +        |          | 133      | ⊢            |                |              | $\vdash$ | -               | _              | -        | $\dashv$  | ᅱ        |
| <del> </del>                                     | 34       | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$     | +-       | ╁            | <del>  -  </del>                                 | $\vdash$        | $\dashv$      | -        | 84       | $\vdash$       |          | $\dashv$ | $\dashv$ | +        | +-       | +        | -+-      | $\dashv$ | -        | 134      | $\vdash$     | $\vdash$       | ├─           | $\vdash$ | Н               |                | $\dashv$ | $\dashv$  | $\dashv$ |
| <u> </u>   | 35       | ├-       | ╁╌       | ┼-   | $\vdash$     | +        |              | H  | Н               | $\dashv$      |          | 85       | Н              | $\vdash$ | +        | $\dashv$ | +        | +        | ╅        | +        | 4        | -        | 135      | $\vdash$     | -              |              | $\vdash$ |                 |                | $\dashv$ | -         |          |
| <del></del>                                      | 36       | $\vdash$ | $\vdash$ | +-   | $\vdash$     | $\vdash$ | ╁            | ╁  | Н               | $\dashv$      |          | 86       | $\vdash$       | $\vdash$ | $\dashv$ | +        | +        | +        | +        |          | -        | $\vdash$ | 136      | <del> </del> | -              | ├            | $\vdash$ | Н               | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 37       | ⊢        | $\vdash$ | ₩  | ⊢            | ╁        | ╁            | <del>                                     </del> | Н               | $\dashv$      |          | 87       | $\vdash$       | -        | $\dashv$ | $\dashv$ | +        |          | +        | +        | ┨        | -        | 137      | Н            | $\vdash$       | <del> </del> | $\vdash$ | $\vdash \vdash$ | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del></del>                                      | 38       | $\vdash$ | $\vdash$ | $\vdash$   | ⊢            | ╁        | $\vdash$     | ╁─   | $\vdash\vdash$  | $\dashv$      | -        | 88       | $\vdash$       | $\vdash$ | $\dashv$ | $\dashv$ | +        | ╁        | +        |          | $\dashv$ | $\vdash$ | 138      | $\vdash$     | $\vdash$       | ├            | $\vdash$ | Н               | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 39       | -        | +-       | +-   | ├            | ╁        | +-           | $\vdash$   | H               | $\dashv$      |          | 89       | $\vdash$       | -        | -+       | -+       | +        | $\dashv$ | +        | +        | $\dashv$ |          | 139      | $\vdash$     | $\vdash$       | -            | $\vdash$ | Н               | Н              | $\dashv$ | -+        | $\dashv$ |
| <del> </del>                                     | 40       | Η-       | +-       | -  | $\vdash$     | ╁╌       | ╂            | $\vdash$   | Н               | $\dashv$      |          | 90       | $\vdash$       | $\dashv$ | $\dashv$ | +        | +        | +        | +        | -        | $\dashv$ |          | 140      | $\vdash$     | $\vdash$       | $\vdash$     | $\vdash$ | Н               | $\vdash$       |          | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 41       | -        | $\vdash$ | ╁─   | $\vdash$     | ╆        | $\vdash$     | 1—   | ⊢┤              | $\dashv$      | $\vdash$ | 91       | $\vdash$       |          | $\dashv$ |          | $\dashv$ | +        | +        |          | -        | $\vdash$ | 141      | $\vdash$     | $\vdash$       | $\vdash$     | $\vdash$ | Н               | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 42       | -        | $\vdash$ | $\vdash$   | $\vdash$     | ╁        | ⊢            | ├  | H               | $\dashv$      | -        | 92       | $\vdash$       |          | -+       | +        | +        | ╬        | +        |          | -        | -        | 141      | $\vdash$     | -              | -            |          |                 |                | -        | $\dashv$  | $\dashv$ |
| <u> </u>   | 42       | $\vdash$ | +-       | $\vdash$   | $\vdash$     | $\vdash$ | ╁            | $\vdash$   | Н               | $\dashv$      |          | 93       | $\vdash$       | $\dashv$ | $\dashv$ | $\dashv$ | +        | +        | +        | +        | $\dashv$ | $\vdash$ | 143      |              | -              | <u> </u>     | -        | $\vdash$        | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 44       | ⊢        | $\vdash$ | -  | ⊢            | +-       | ├            | H  | $\vdash$        | $\dashv$      | -        | 94       | $\vdash$       | $\dashv$ | $\dashv$ | -        | $\dashv$ | +        | +        | +        | 4        |          | 144      | -            | $\vdash$       |              | -        | $\dashv$        | Н              | $\dashv$ | $\dashv$  |          |
| <u> </u>   | 45       | -        | +-       | -  | +            | +-       | ┼            | <del> </del>                                     | $\vdash \vdash$ | 긕             |          | 95       | $\vdash$       | -+       |          | $\dashv$ | +        | +        | +        | +        | $\dashv$ | -        | 145      | $\vdash$     | $\vdash\vdash$ | <u> </u>     | $\vdash$ | $\vdash\vdash$  | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del> </del>                                     | 46       | ⊢        | ╁        | ├  | ╁            | +-       | ╁            |  | Н               | $\dashv$      | <u> </u> | 96       |                | $\dashv$ | $\dashv$ | +        | +        | +        | +        | +        | ┨        |          | 146      |              | $\vdash$       |              | _        | $\vdash$        | Н              |          | $\dashv$  | $\dashv$ |
| <u> </u>   | 47       | -        | $\vdash$ | ┼-   | ╁            | ╁╌       | +            |  | $\vdash$        | $\dashv$      |          | 97       | $\vdash$       | -        | $\dashv$ | +        | $\dashv$ | +        | +        | +        | ┨        | -        | 147      | -            | $\vdash$       |              | $\vdash$ | $\vdash$        | Н              |          | $\dashv$  | $\dashv$ |
| <del></del>                                      | 48       | -        | +        | ╁  | ⊢            | ╁        | +            | ⊢  | $\vdash \dashv$ | $\dashv$      |          | 98       | $\vdash\vdash$ | $\dashv$ | -+       | $\dashv$ | -+       | +        | +        | -        | $\dashv$ | $\vdash$ | 148      |              | $\vdash$       |              | $\vdash$ | $\vdash$        | $\vdash$       | $\dashv$ | $\dashv$  | $\dashv$ |
| <del></del>                                      | 49       | $\vdash$ | ╁        | ⊢  | ⊢            | +-       | ┼-           | $\vdash$   | Н               | $\dashv$      | -        | 99       | $\vdash$       | $\dashv$ | $\dashv$ | +        | $\dashv$ |          | +        | +        | $\dashv$ | -        | 149      | H            | $\vdash$       |              | -        | $\vdash$        | Н              | $\dashv$ | $\dashv$  | $\dashv$ |
|  | 50       | $\vdash$ | $\vdash$ | ⊢  | ⊢            | ┼        | +-           | $\vdash$   | Н               | $\dashv$      |          | 100      | ┝┥             | $\dashv$ | +        | $\dashv$ | +        | ╬        | +        | -        | $\dashv$ | $\vdash$ | 150      |              | $\vdash$       |              | $\vdash$ | $\vdash$        | $\vdash\vdash$ | $\dashv$ | -1        | $\dashv$ |
|  | DU.      |          |          |  | <u></u>      |          | <u></u>      | L.,  | ĻJ              |               |          | 100      | ╙              | ᆚ        |          | 丄        |          | $\perp$  | $\perp$  |          | ┙        | <u> </u> | 130      | L.           | Ш              |              | لــــا   | لـــا           |                |          |           |          |